FIGHT THE INTERNATIONAL SEARCHING AUTHORITY	PCT
To:	
VOSSIUS & PARTNER	NOTIFICATION OF TRANSMITTAL OF
Siebertstrasse 4 81675 München   FINGEGANGE	THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION
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Vossius & Partner	(PCT Pule AA 1)
18. Jan. 2001	(PCT Rule 44.1)
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bearb.;	Dale of mailing
18 iche	(cay/month/year) 18/01/2001
Applicant's or agent's file reference	
D 2398 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/EP 00/05922	(cay/month/year) 26/06/2000
Applicant	20/00/2000
, ppmaan	
UNIVERSITÄT ZÜRICH et al.	
1. X The applicant is hereby notified that the International Search	h Denor has been seed that
1. X The applicant is hereby notified that the International Search Filling of amendments and statement under Article 19:	m Report has been established and is transmitted herewith.
The applicant is entitled, if he so wishes, to smend the claim	ns o: the International Application (see Bule 46)
· · · · · · · · · · · · · · · · · · ·	·
When? The time limit for filing such amend nents is norma International Search Report; however, for more de	ally a months from the date of transmittal of the patient of the patient of the motes on the accompanying sheet
	and the same of th
34, chemin des Colombettes	
1211 Geneva 20, Switzerland Fascimile No.: (41:-2:2) 740.14:35	
For more detailed instructions, see the notes on the account	mpenying sheet.
2. The applicant is hereby notified that no international Search	Re nort will be established and that the declarate and the
Article 17(2)(a) to that effect is transmitted h-rewith.	The same and that the decidiatio I dudar
3. With regard to the protest against paymen of (an) addition	nal ree(s) under Rule 40.2, the applicant is notified that
the protest together with the decision thereon has been	handwitted to the interestional format to the
applicant's request to forward the texts of both the prot	test and the decision thereon to the designated Offices.
_	
no decision has been made yet on the project; the appl	licant will be notified as soon as a decision is made.
	•
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap	plication will be published by the International Bureau
priority claim, must reach the international Bureau as provined in	of windrawal of the international application, or of the
completion of the technical preparations for International publicat	tion
Within 19 months from the priority date, a demand for international	at Drailminary examination must be filed if the cool
wishes to postpone the entry into the national phuse until 30 mor	nths from the priority date (in some Offices even leter).
Within 20 months from the priority date, the applicant must perfore	m the prescribed acts for eath, let- the
before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	de/nand or in a loter election within to
and the state of t	Ny vindpost II.
	Authorized fficer
European Patent Office, P.B. 5818 Patentiaen 2	
NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo r i,	Mireille Claudepierre
Fax: (+31-70) 340-3016	• .

Form PCT/ISA/220 (July 1998)

# NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preiminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the citims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Exemining Authority.

Upon entry into the national phase, all parts of the intermetional application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 menths from the data of transmittal of the international search report or 16 months from the pricrity date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rulls 46.2).

Where a demand for international preliminary examination has been its filed, see below.

### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the te d of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabio numerals. Where a claim in cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205/b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The latter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

### NOTES TC: FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replacer one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which emendments must be explained in the accompanying letter:

- (Where originally there were 48 staims and after an endment of some claims there are 51);
   \*Claims 1 to 29, 31, 32, 34, 35, 17 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added.\*
- [Where originally there were 15!slaims and after amendment of all claims there are 11]:
   Claims 1 to 15 replaced by amended plaims 1 to 1 \*.\*
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
   "Claims 1 to 6 and 14 unchanged; claims 7:to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and cose not replace the letter indicating the differences between the craims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a hearling, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connect on with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filled

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of or in addition to, the translation of the claims as filled.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Auplicant's Guide.

# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rule : 43 and 44)

Applicant's or agent's file reference	( form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.	
D 2398 PCT	At TION International filing date (day month/year)	(Earliest) Priority Date (day month/year)	
The state of the s			
PCT/EP 00/05922	26/06/2000 25/06/1999		
Applicant		· · · · · · · · · · · · · · · · · · ·	
UNIVERSITÄT ZÜRICH et al.			
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this Internation: I Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant	
This International Search Report consists  [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in thi	ls réport.	
1. Basis of the report	•		
a. With regard to the language, the language in which it was filed, un	international search was carried out on the bless otherwise indicated under this item.	asis of the international applical on in the	
Authority (Rule 23.1(b)).		the international application furnished to this	
was carried out on the basis of th	e sequence listing :	international application, the international search	
1 hand	onal application in written form . emational epplication in computer readable fo	orm.	
· · · · · · · · · · · · · · · · · · ·	this Authority in written form	()	
× —	this Authority in computer readble form.		
the statement that the su	bsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the	
•		n is identical to the written sequi nce listing has been	
	ind unsearchable (See Box I).		
3. Unity of invention is lac	iking ( <del>sae</del> coex II).		
4. With regard to the title,			
	ibmitted by the applicant.		
	shed by this Authority to read as follows:		
	ILED-COIL PEPTIDES AND SCRE	ZENING METHOD THERE FOR	
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5. With regard to the abstract,	·	*	
the text is approved as s	ubmitted by the applicant.		
within one month from th	e date of mailing of this international search (	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.	
6. The figure of the drawings to be put	ilished with the abstract is Figure No.	1	
as suggested by the app	licant	None of the figures.	
X because the applicant fa		•	
because this figure bette	r characte: izes the invention.		

## INTERMITIONAL SEARCH REPORT

In population No.
PCT/EP 00/05922

A. CLASS	FICATION OF SUBJECT MATTER		
IPC 7	C12N15/10 G01N33/68 C07K14	4/00 A61K3B/17	
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According t	n International Patent Classification (IPC) or to both national clas	sification and IPC	3
	SEARCHED		· · · · · · · · · · · · · · · · · · ·
	SEARCHED  Documentation searched (dassification system followed by classification system followed by classif	icalia, symbols)	
IPC 7	C12N G01N C07K A61K	water symbols	V.
Documenta	tion searched other than minimum documentation to the extent the	nat su in documents are included in the fields a	searched
Electronic d	ala base consulted during the international search (name of data	a basi and, where practical, search terms use	d).
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		<del> </del>	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where aspropriate, of the	relevant passages	Re evant to claim No.
γ .	WO 98 34120 A (PELLETIER JOELLE	N NA REMY	1-22
' -	INGRID (CA); UNIV MONTREAL (CA)	· MICHN)	1-12
	6 August 1998 (1998–08:-06)	, ruchity	- '
	cited in the application		
	the whole document		
	the whole document		
γ	YU Y ET AL: - "INVESTIGATION OF		1 1 20
'	ELECTROSTATIC INTERACTIONS IN T	LID STRANDED	1-22
	COILED-COILS THROUGH RESIDUE SH		
	BIOPHYSICAL CHEMISTRY, AMSTERDAM		!
V.	vol. 59, 16 April 1996 (1996-04		
* 8		-IC), pages	,
	299-314, XP000971324	· · · · · · · · · · · · · · · · · · ·	
	cited in the application	•	
	the whole document	•	'
		<b>7/77</b>	
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V =	er documents are listed in the continuation of box C.	V Potent family	
الما الما		Patent family members are listed	in ennex.
* Special ca	legories of cited documents :	F. B. Andrewson and Co.	
"A" docume	nt defining the general state of the art which is not	later document published after the inte or priority date and not in conflict with	the application but
	ered to be of particular relevance	cited to understand the principle or the invention	eory under ring the
	ocument but published on or after the international	":" document of particular relevance; the	claimed invention
"L" document which may throw doubts on priority claim(s) (r) cannot be considered novel or cannot be considered to broke an invention that or considered to broke an invention the document to the considered to broke an invention to document to the considered novel or cannot be			
which is ched to establish the publication date of another document of particular relevance; the claimed invention			
Cannot be considered to involve an inventive step when the			
other means ments, such combination being obvious to a pen on skilled			
*P* document published prior to the international filing date but in the art.			
- Control particularly			
Date of the actual completion of the international search  Date of mailing of the international search report			
•	3	40.400	ľ
4	January 2001	18/01/2001	. 1
Name and	nailing address of the ISA	Authorized efficient	
· ····································	European Paleni Office, P.B. 5818 Patentia in :	Authorized officer	
	NL – 2280 HV Rijswijk		
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Smalt, R	

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		PCITEP 00	7 03922
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where app. op late, of the relevar I passages		Relevant to taim No.
A	ARNDT K M ET AL: "In-vivo selection of interacting peptide litraries by selectively-infective phages." FASEB JOURNAL, vol. 11, no. 9, 1997, page Al327 XP002156485 17th International Congress of Biochemistry and Molecular Biology in conjunction with the Annual Maeting of the American Society for B ochemistry and Molecular Biology; San Francisco, California, USA; Augus: 24-29, 1997 ISSN: 0892-6638 the whole document		
A <i>J</i>	O'SHEA E K ET AL: "PE'TIDE 'VELCFO*': DESIGN OF A HETERODIME RIC COILED COIL" CURRENT BIOLOGY, GB, CURRENT SCIENCE,, vol. 3, no. 10, 1993, pages 658-667, XP000653001 ISSN: 0960-9822 cited in the application the whole document		
A	HODGES R S: "DE NOVO DESIGN OF ALPHA-HELICAL PROTEINS: BASIC RESEARCH TO MEDICALAPPLICATIONS" BIOCHEMISTRY AND CELL BIOLOGY. BIOCHIMIE ET BIOLOGIE CELLULAIRE, XX, XX. vol. 74, no. 2, 1996, pages 133-154, XP000605834 ISSN: 0829-8211 cited in the application		
A 🗸	the whole document  JOHN MATTHIAS ET AL: "Two pairs of oppositely charged amino acids from Jun and Fos confer heterocimerization to GCN4 leucine zipper."  JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 23, 1994, pages 16247-16253, XP002156486  ISSN: 0021-9258 cited in the application the whole document		
A .	O'SHEA E K ET AL: "MFCHANISM OF SPECIFICITY IN THE FOS-JUN ONCOPROTEIN HETERODIMER" CELL, vol. 68, no. 4, 1992, pages 699-708, XP002156487 ISSN: 0092-8674 cited in the application the whole document		

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# INTERNATIONAL SEARCH REPORT

PCT/EP 00/0592.2

6.6		POTEP 00	0592.
Category *	ation, DOCUMENTS CONSIDERED TO BE RELEVANT		
	indication, where at propriate, of the relevant passages		Relevant to claim No.
P,X J	PELLETIER, J.N. ET AL.: "An in vivo library-versus-library selection of optimized protein-protein interactions." NATURE BIOTECHNOLOGY, vol. 17, July 1999 (1999-07), pages 683-90, XP002156488 the whole document		1.19,22
P, X	ARNDT KATJA M ET AL: "A heterodimeric coiled-coil peptide pair selected in vivo from a designed library-versus-library ensemble."		1-19,22
	JOURNAL OF MOLECULAR REGIOGY	'	
Ē	vol. 295, no. 3, 21 January 2000 (2000-)1-21), pages 627-639, XP002156489 ISSN: 0022-2836 the whole document		
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### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claim 8, and claims 10-13 and 15-22 in as far as they pertain to claim 8, relate to a polypeotide defined by reference to a desirable characteristic or property, namely that it can be obtained by the method of claim 7.

The claims cover all polypestides having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such polypeptides. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the polypeptides comprising domains as defined in claims 5 and/or 6, and in the broader sense those that fall under the general fomulae of claim 1(a) and (b).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

B x I Observations where certain claims wer found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of pertain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Science can be carded out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are:not drafted in accordance with the second and third sentences of Rule 6.4(a).
and the same of th
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
as ioliows;
1. As all required additional search fees were timely paid by the applicant, this international Search Report cover all searchable claims.
As all searchable daims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the Islams it is covered by claims Nos.
restricted to the Invention first mentioned in the ralaims; it is covered by claims Nos.:
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Remark on Protest  The additional search fees wire accompanied by the applicant's pritest.
No protest a companied the payment of additional search lees.

INTERNATIONAL SEARCH REPORT tional Application rio on on prtent family members /EP-00/05922-Patent document cited in search report Publication Patent family member(s) Publication cate dute WO 9834120 06-03-1998 CA 2196496 A 5850598 A 31-17-1998 25-18-1998 EP 0966685 A 29-12-1999

Form PCT/ISA/210 (petent family arriox) (July 1882)